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# TITLE OF THE INVENTION

## APPLICATIONS OF A DIFFERENTIAL LATCH

This patent application is claiming priority under 35 USC § 121 to co-pending  
5 patent application entitled A DIFFERENTIAL LATCH AND APPLICATIONS  
THEREOF having a serial number of 10/201,152 and a filing date of 7/23/2002, which is now a U.S.  
1 Patent 6,693,476

## BACKGROUND OF THE INVENTION

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## TECHNICAL FIELD OF THE INVENTION

This invention relates generally to digital circuitry and more in particular to differential digital circuitry.

## DESCRIPTION OF RELATED ART

15 Digital logic circuits, such as AND gates, NAND gates, NOR gates, OR gates, exclusive OR gates, latches, inverters, flip-flops, et cetera, are known to be used in a wide variety of electronic devices. For instance, digital logic circuits are used in all types of computers (e.g., laptops, personal computers, personal digital assistants, Internet, infrastructure equipment, telecommunication infrastructure equipment, et cetera),  
20 entertainment equipment (e.g., receivers, televisions, et cetera), and wireless communication devices (e.g., cellular telephones, radios, wireless local area networks, et cetera).

Typically, digital logic circuits are part of a larger circuit, which is fabricated as  
25 an integrated circuit. For example, a local oscillator within a radio frequency transmitter and/or receiver includes a plurality of flip-flops in its divider feedback section to provide adjustable divider values. As is known, by adjusting the divider value in a local oscillator, the resulting local oscillation can be adjusted to desired values.

30 As is also known, high performance applications, such as a radio frequency transmitter/receiver integrated circuit (IC), use differential signaling throughout the signal